		\\T	
Notice of Allowability	Application No. Applicant(s)		
	09/665,884	DICK ET AL.	
	Examiner	Art Unit	
	Sudhanshu C. Pathak	2634	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31 1. ☑ This communication is responsive to July 30 <sup>th</sup> , 2004.	S (OR REMAINS) CLOSED in th 5) or other appropriate communic RIGHTS. This application is subj	is application. If not included cation will be mailed in due course	
2. ⊠ The allowed claim(s) is/are <u>1-17</u> .			
3. $\boxtimes$ The drawings filed on <u>July 30<sup>th</sup>, 2004</u> are accepted by the	e Examiner.		
4. Acknowledgment is made of a claim for foreign priority of a) All b) Some* c) None of the:  1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority of International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  5. A SUBSTITUTE OATH OR DECLARATION must be submined including changes required by the Notice of Draftspell (a) including changes required by the Notice of Draftspell (b) hereto or 2) to Paper No./Mail Date	ve been received. ve been received in Application No ocuments have been received in "of this communication to file and MENT of this application.  mitted. Note the attached EXAMI ves reason(s) why the oath or defust be submitted. rson's Patent Drawing Review (son's Patent Drawing Review (son's Amendment / Comment or in 1.84(c)) should be written on the content of t	No this national stage application from the requirement of the requirement of the requirement of the requirement of the Office action of the back)	nents E OF
<ol> <li>DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT</li> </ol>	osit of BIOLOGICAL MATER	IAL must be submitted. Note the	ne ·
Attachment(s)  1. Notice of References Cited (PTO-892)  2. Notice of Draftperson's Patent Drawing Review (PTO-948)  3. Information Disclosure Statements (PTO-1449 or PTO/SB/Paper No./Mail Date  4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Sum Paper No./Ma /08), 7. ☐ Examiner's Am	il Date	

Application/Control Number: 09/665,884

Art Unit: 2634

## **DETAILED ACTION**

1. Claims 1-to-17 are pending in the application.

## Allowable Subject Matter

2. Claims 1-to-17 are allowable over the prior art of record because the cited reference do not contain the specified limitation of a DC canceler circuit comprising: a canceler input terminal adapted to receive a series of data input samples x(n); a canceler output terminal adapted to provide a series of data output samples y(n); a feedback path having; a feedback-path input terminal connected to the canceler output terminal; a feedback-path output terminal connected to the canceler input terminal; and sigma-delta modulator having a sigma-delta input terminal indirectly connected to the feedback-path input terminal and a sigma-delta output terminal connected to the feedback-path output terminal. The cited references also do not contain a sigma-delta loop having a tunable center frequency, the loop comprising: a data input terminal adapted to receive data x(n); a tunable all-pass network having an all-pass network input terminal indirectly connected to the data input terminal and an allpass network output terminal; a global feedback network connected between the all pass network output terminal and the all-pass network input terminal; and a local feedback network connected between the all-pass network output terminal and the all-pass network input terminals wherein the sigma delta loop is used in a control loop application.

Page 2

Application/Control Number: 09/665,884 Page 3

Art Unit: 2634

## Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sudhanshu C. Pathak whose telephone number is (571)-272-3038. The examiner can normally be reached on M-F: 9am-6pm.

- If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on (571)-272-3056
- The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.
- Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sudhanshu C. Pathak

TECHNOLOGY CENTER 2600